NEF.	REV.	DRAWING BIT. Designation	AND CAUSE	TAILUME EFFECT.	2/2 RATEONALE FOR ACCEPTANCE
1380		POWER SUPPLY 115V A/C 01Y-1 REFERENCE SCHEMATIC ICD 3-0018-05 40001118 POWERS PS 90128. BD 85511	MIDE: LOSS OF 115V A/C POWER. CAUSE(S): (1) IMPUT FILTER SHORT. (2) P15V WIRE MARNESS SHORT. (3) ANY 115V SUITCH CONTROL SHORT TO CASE (LIGHTING, SHOWLDER BRACE).	FOGE LIT LEGHTING, CLW, MILL AND MODES SELECT AMMUNICATIONS LOST. SYSTEM MILL OPERAJE IF BRACE RELEASED. MORST CASE LOSS OF OUTSTOM. LOSS OF SHOULDER BRACE RELEASE. REDUNDANT PARMS REMAINING N/A	THE INPUT CIRCUIT TO CHAMMESS A AMO B IS A FILTER CIRCUIT CIMPRISSING IND INDUCTIORS AND IND CAPACITORS. THE DESIGN AND CONSTRUCTION OF THE INDUCTION CIMPRISSING IND FRODUCTIONS ARE TYPE MOSCAY/OI. INTERCONNECTIONS BETWEEN THE DEC INTERFACE CONNECTORS AND ALL MODULE PRINTED BOARD CONNECTORS IS ACRIEVED BY MEANS OF THE WIBING, THIS IS SINTERN TO A FERTIBLE PRINTED CIRCUIT AND HAS APPION INSULATION. THE FIRM WIRING PACKAGE IS MANUACTURED BY MCHAES ATBERNET. THE COME MALF OF THE ELECTROWICS PACKAGE, INF FRECHOMICS PAY AND ALL PCB SOCKE? CONNECTORS ARE SUPPLIED AS A CILL THE FIRM WIRING IS INTEGRATED TO THE KIL BY MUGHES. AN ASSEMBLY WAS SUBJECTED TO OUALFFICATION LEVEL WIRDARION AND THERMAL CYCLING IESES. ALL DELIVERO ASSEMBLY WAS SUBJECTED TO ACCEPTANCE TESTING WHICH INCLIDES: ANY AND ALL WITH FORTHWOUS AUJONABLE CONTINUITY. SCAN OF ALL CONTACTS, INCUMATION RESISTANCE, AND DIETECTORY. INTERCONNECTIONS BELVEEN THE ELECTRONICS PACKAGE AND THE PART MOCINTED PARTS AND COMPONENTS IS ACKNEVED BY A PRE-FORMED WIRING MARKESS. PRIOR TO INSTALLATION, INSTANDANCE, AND DIETECTRIC STRUCKS. SUBJECTED TO SESTING FOR DIETECTRIC STRUCKS. THE FOLLY ASSEMBLY WAS SUBJECTED TO SESTING FOR DIETECTRIC STRUCKS. THE PROGRAM FOR THE DECINOMICS PACKAGE AND ACCEPTANCE TESTING OF THE DIECTOR OF SESTING FOR DIETECTRIC STRUCKS. THE SHAPE OF THE PROGRAM FOR THE DECINOMICS PACKAGE AND ACCEPTANCE TESTING OF THE DIECTOR OF SEMBLE. EEE PARTS MAVE BEEN SERECTED AND CONTROLLED IN ACCORDANCE WITH SPAR BASEMBLY THE EVELS, AND ADDIMATE DERAING OF PART SIRESS THE ROUTEMENTS FOR MONITORING AND CONTROLLING EEF PARTS. THE RELIGIBLE FOR THE FORT OF THE PROGRAM FOR THE PARTS OF MONITORING AND CONTROLLING EEF PARTS. THE RELIGIBLE FOR THE FORT OF THE PROGRAM FOR THE PARTS OF THE MOLITOR HAS A CONTROLLING OF PARTS SIRESS INCLUDED IN THE FORT OF THE PROGRAM FOR THE PARTS OF THE PROGRAM FOR THE PARTS OF THE PROGRAM FOR THE PARTS OF THE PROCESS FOR THE PROGRAM FOR THE PARTS ACCORDING THE PARTS OF THE DIESTING OF PARTS SIRESS INCLUDING THE DIESTING OF PARTS SIRES

PROJECT: SRMS ASS'Y MOMENCEATURE: DEC PANEL SYSTEM: DEC SUBSYSTEM ASS'Y P/N: 51140E391

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TMEA REF.	REV.	DRAWING REF. DESIGNATION	FATLURE PRIDE AND CAUSE	FATLURE EFFECT ON END LIEN	ROUN / FUNC. 2/2 RATIONALE FOR ACCEPTANCE CRETICALITY
1380	O .	POWER SUPPLY 115V A/C 01Y-1 REFERENCE SCHENATIC ICD 3-0018-03 (ORBITER POWER). PS 90128. UL 90128. ED 85511	MODE: LOSS OF 115V A/C POWER.: CAUSE(S): (1) IMPUT FILIER SHORT. (2) 115V WIRE HARNESS SHORT. (3) ARY 115V SWITCH COMIACT SHORT 10 CASE (LIGHTING, SHOULDER BRACE).	EDGE LIT LIGHTING, CAM, MRU AND MODES SELECT ANNUNCIATORS LOST. SYSTEM WILL OPERATE IF BRACE RELEASED. WORST CASE LOSS OF MISSION. LOSS OF SHOULDER BRACE RELEASE. REDUNDANT PATHS REMAINING M/A	MSFC-SID-136 AND CAE PD93489. THESE DOCUMENTS REQUIRE APPROVED HOUNTING METHODS, STRESS RELIEF, AND COMPONENT SECURITY. WHERE APPLICABLE, DESIGN DRAWINGS AND DOCUMENTATION GIVE CLEAR IDENTIFICATION OF HANDLING PRECAUTIONS FOR ESO SENSITIVE PARTS. BOARD ASSEMBLY DRAWINGS INCLUDE THE REQUIREMENT FOR SOLDERING STANDARDS IN ACCORDANCE WITH NHB 5300.4(3A) AND JSC 08800A.
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PREPARED BY: MING

SUPERCEDING DATE: 11 SEP 86

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DATE:

PROJECT: SRMS ASS'Y NOMENCLATURE: DEC PANEL SYSTEM: DAC SUBSYSTEM ASS'Y P/N: 51140E391

HEE1: ____

REF.	REV.	DRAWING BEF. DESIGNATION	FATEURE HODE AND CAUSE	FAILURE EFFECT ON END ITEM	HOUR / FUNC. 2/2 RATIONALE FOR ACCEPTANCE CRITICALITY
1380		POWER SUPPLY 115V A/C 01Y-1 REFERENCE SCHEMATIC 1CD 3-0018-03 (ORBITER POWER). PS 90128. VL 90128. ED 85511	MODE: LOSS OF 115V A/C POWER: CAUSE(S): [1) INPUT FILTER SHORT. (2) 115V WIRE MARKESS SHORT. (3) ANY 115V SWITCH CONTACT SHORT TO CASE ELIGHTING, SHOULDER BRACE).	EOGE LIT LIGHTING, CAW, MRU AND MODES SELECT AMMUNCIATORS LOST. SYSTEM WILL OPERATE IF BRACE RELEASED. WORST CASE LOSS OF MISSION. LOSS OF SHOULDER BRACE RELEASE. REDUNDANT PATHS REMAINING	ACCEPTANCE [ESIS THE HARDWARE TIEM IS SUBJECTED TO THE FOLLOWING ACCEPTANCE ENVIRONMENTAL RESTING AS PART OF THE DRC PANEL. O VIBRATION: LEVEL AND DURATION - REFERENCE TABLE 1 O THERMAL: *100 DEGREES F 10 *10 DEGREES F 2 CYCLES (9.5 HAS PER CYCLE) THE DAC PANEL ASSEMBLY IS FURTHER TESTED AS PART OF THE RMS SYSTEM (1951B RMS STRONGBACK TEST AND 19552 PLAT FLOOR TEST) WHICH VERIFIES THE ABSENCE OF THE FAILURE MODE. OLALL FICATION TESTS THE DAC PANEL HAS BEEN SUBJECTED TO THE FOLLOWING DUAL FICATION TEST ENVIRONHMENT: O VIBRATION: LEVEL AND DURATION - REFERENCE TABLE 1 O SHOCK: 20G/11HS - 3 ANES (6 DIRECTION) O THERMAL: 130 DEGREES F 10 -23 DEGREES F (12 HRS PER CYCLE) (6 CYCLES) O MUNICULY: 95% (120 DEGREES F TO B2 DEGREES F CYCLE IN 16 HRS) 10 CYCLES TOTAL O ENC: MIL-SID-461 AS MODIFIED BY SL-E-0002 (1851 CEO1, CECO3, CSO1(0D/AC), CSO2, CSO4, REO2 (19/H), RSO2, RSO3, RSO4) REO2 (18/H) RSO2, O3, O4) FLIGHT CHECKOUT PORS OPS CHECKLIST (ALL VEHICLES) JSC 16987
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PREPARED BY: MENG SUPERCEDING DATE: 11 SEP 86 AIPPROVED BY: DATE:

				DA L MONEMCTWINKE: PI	ASS'Y P/N: 31140E391 SHEET:
FMEA REF.	REV.	DRAWING REF. DESIGNATION	FATLURE WODE AND CAUSE	FATEURE EFFECT ON END ITEM	HOUR / FUNC. 2/2 CRITICALITY RATIONALE FOR ACCEPTANCE
1380		POWER SUPPLY 115V A/C QTY-1 REFERENCE SCHEMATIC ICD 3-0018-03 (ORBITEN POWER). PS 90128. NL 90128. ED 85511	MODE: LOSS OF 115V A/C POWER CAUSE(S): (1) INPUT FILTER SHORT. (2) 115V WIRE HARNESS SHORT. (3) ANY 115V SWITCH CONTACT SHORT TO CASE (LIGHTING, SHOULDER BRACE).	EDGE LIT LIGHTING, CAM, NRU AND MODES SELECT ANHUNCIATORS LOST. SYSTEM WILL OPERATE IF BRACE RELEASED. MORST CASE LOSS OF MISSION. LOSS OF SHOULDER BRACE RELEASE. REDUNDANT PATHS REMAINING M/A	THE LIGHTING CONTROL UNITS ARE PROCURED TO CAE SPECIFICATION PS 86022. THIS SPECIFICATION ESTABLISHES THE PERFORMANCE, DESIGN, DEVELOPMENT, AND VERIFICATION REQUIREMENTS FOR THE LRU. THE UNITY WAS ACCEPTANCE ISSTED AND INSPECIED PRIOR TO QUALIFICATION. QUALIFICATION AND ACCEPTANCE OF THE UNITY WAS ACCEPTANCE OF THE UNITY WAS PERFORMED AS REQUIRED BY SPECIFICATION PSBOOZE WHICH INCLUDES ACCPETANCE IESI, POWER IESI, ENC. THERMAL CYCLE, VIBRATION OAVI, ACCELERATION, THERMAL/LOU PRESSURE, LIFE PACKAGE QUALIFICATION TEST, LIGHTING, SHOCK AND ACCEPTANCE TEST. EEE PARTS INSPECTION IS PERFORMED AS REQUIRED BY WAS ARROWN. THE PART LEVEL TO THE REQUIREMENTS OF THE APPLICABLE SPECIFICATION. ALL EFE PARTS ARE 100X SCREENED AND BURNED IN, AS A HINMMAN AS REQUIRED BY SPAR RHS.PA.003, BY THE SUPPLIER. AND ITOMALLY, EEE PARTS ARE 100X SCREENED AND ENDINGED IN, AS A HINMMAN AS REQUIRED BY SPAR RHS.PA.003, BY THE SUPPLIER. AND ITOMALLY, EEE PARTS ARE 100X RESCREENED IN ACCORDANCE MOITOMALLY, EEE PARTS ARE 100X RESCREENED IN ACCORDANCE MOITOMALLY, EEE PARTS ARE 100X RESCREENED IN ACCORDANCE MOITOMALLY, EEE PARTS ARE 100X RESCREENED AND ACCORDANCE ON A RANDOMLY SELECTED 52 OF PARTS, MAXIMMS 5 PIECES WINIMMS 5 PIECES FOR EACH LOI MUMBER/DATE CODE OF PARTS RECEIVED. RECEIVING INSPECTION VERIFIES THAT THE MARDWARE RECEIVED IS AS TOEMTIFIED IN THE PROCUREMENT OCCURENTS, THAT NO DAMAGE HAS OCCURRED DURING SHIPMENT, AND THAT APPROPRIATE DATA HAS BEEN RECEIVED MINES SHIPMENT, AND THAT APPROPRIATE DATA HAS BEEN RECEIVED MINES SHIPMENT, AND THAT APPROPRIATE DATA HAS BEEN RECEIVED MINES SHIPMENT, AND THAT APPROPRIATE DATA HAS BEEN RECEIVED MINES TO SUITCH COMPACT, AND THAT APPROPRIATE DATA HAS BEEN BEEN TO SUITCH COMPACT, AND THAT APPROPRIATE DATA HAS BEEN BEEN BEEN BEEN BEEN BEEN BEEN BEE

CRITICAL	itemo	LIST
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PROJECT: SRMS

ASS'Y NOMENCEATURE: DEC PANEL

SYSTEM: DEC SUBSYSTEM

ASS'Y P/N: 5TT40F391

SHEET: 5

PREA REF.	REV.	DRAWING REF. DESIGNATION	FATLURE HODE AND CAUSE	TATLURE EFFECT ON END FIEM	HOUR / FUNC. 2/2 RATIONALE FOR ACCEPTANCE CRITICALITY
1380	0	POWER SUPPLY 115V A/C 91Y-1 REFERENCE SCHENATIC ICD 3-0018-03 (ORBITER POWER). PS 90128. NL 90128. ED 85511	MODE: LOSS OF 115V A/C POWER. CAUSE(S): (1) IMPUT FILTER SHORT. (2) 115V WIRE HARNESS BHORT. (3) AMY 115V SWITCH COMIACT SHORT TO CASE (LIGHTING, SHOULDER BRACE).	EDGC LIT LIGHTING, CAM, NRU AND MODES SELECT AMMUNCIATORS LOST. SYSTEM WITE OPERATE IF BRACL RELEASED. MORST CASE LOSS OF MISSION. LOSS OF SHOULDER BRACE RELEASE. REDUNDANT PATHS REMAINING	INSPECTION FOR BENT OR PUSHBACK CONTACTS ETC. SUB-SYSTEM PERFORMANCE TESTING (ATP) INCLUDES AN AMBIENT PERFORMANCE TEST. (MANDATORY INSPECTION POINT). SRMS SYSTEMS INTEGRATION, THE INTEGRATION OF MECHANICAL ARM SUBASSEMBLIES AND THE FLIGHT CABIN EQUIPMENT TO FORM THE SRMS. INSPECTIONS ARE PERFORMED AT EACH PHASE OF INTEGRATION WHICH INCLUDES GROUNDING CHECKS, THRU WIRING CHECKS, WIRING ROUTING, INTERFACE CONNECTORS FOR BENT OR PUSH BACK CONTACTS ETC. SRMS SYSTEMS TESTING - STRONGBACK AND FLAT FLOOR AMPIENT PERFORMANCE TEST. (SPAR/GOVERNMENT REP MANDATORY INSPECTION POINT)
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PREPARED BY: MING	SUPERCEDING DATE: 11 SEP 86	APPROVED BY:	OA1E:
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PROJECT: SAMS ASS'Y MOMENCLATURE: DEC PANEL SYSTEM: DAC SUBSYSTEM ASS'Y P/N: 51140E391 _ SHEE1: ___6

FHEA REF.	REV.	DRAWING REF. DESIGNATION	FATLURE NODE ANO CAUSE	FATEURE EFFECT ON END ITEM	HOLM 7 FUNC. 2/2 RATIONALE FOR ACCEPTANCE
	REV.	C DRAWING REF.	ANO	ON	HOUR / FUNC. 2/2 RATIONALE FOR ACCEPTANCE
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PREPARED BY: MING	SUPERCEDING DATE: 11 SEP 86	AFPROVL	•	ATC:
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PROJECT: SRMS ASS'Y NOMENCLATURE: DEC PANEL	SYSTEM: DAC SUBSYSTEM ASS'Y P/N: STIRGETST	SHFET:
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FMCA REF.	REV.	MANE OTY & DRAWING REF. DESIGNATION	FAILURE MODE AND CAUSE	FAILURE EFFECT ON END ITEM	HOWR / FUNC. 2/2 RATIONALE FOR ACCEPTANCE GRITICALITY
1180		POMER SUPPLY 11SV A/C QTY-1 REFERENCE SCHENATIC ICD 3-0018-03 (ORBITER POMER). PS 30128. ML 30128. ED 85511	MODE: LOSS OF IISV A/C POWER. CAUSE(S): (1) IMPUT FILTEN SHORT. (2) IISV WINE HARMESS SHOAT. (3) ANY IISV SMITCH CONTACT SHORT TO CASE (LIGHTING SHOULDER BRACE).	EOGE LIT LIGHTIMG CBM MAU AND MODES SELECT ANNUMCIATORS LOST. SYSTEN WILL OPERATE IF BRACE RELEASED. WORST CASE LOSS OF MISSION. LOSS OF SHOULDER BRACE RELEASE. REDUNDANT PATHS RERAINING N/A	OPERATIONAL EFFECTS CANNOT RELEASE SHOULDER BRACE, CANNOT UNCRADLE ARM TO PERFORM MISSION. CREM ACTION USE EVA OR RHS DAY, IFH KIT TO RELEASE SHOULDER BRACE. CREM TRAINING MOME MISSION CONSTRAINTS RELEASE THE BRACE AS EARLY IN THE MISSION AS POSSIBLE TO AVOID ANY THERMALLY INDUCED FAILURES TO RELEASE.
	•			-	SCREEN FAILURES N/A ONRSD OFFLINE
					SELECT PARAMETER SHITCH TO TEST. VERTEY HISV POWER DRAW. OMRSD ONLINE INSTALLATION
					MONE ONRSD DULINE TURNAROUND
			į		SELECT PARAMETER SWITCH TO TEST. VERIFY EDGE LIGHTING.
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